GE
Power Conversion

Product Information Packet

January 13, 2017

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	**5KS254SAE6033A**
Catalog Number:	**V905**
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5825PMP5317

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KS254SAE6033A**	**Estimated Weight:**	315 Lbs
Outline Drawing:	4002B5825PMP5317	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG9	**Enclosure:**	TEFC
Instruction Book:	GEK-95351	**Encl Construction:**	SD
Design Code:	25BD1162A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	65
Frame:	L254TP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	92.4 %
Output Power:	15HP 11.1KW	**Guaranteed Efficiency:**	91.0
RPM:	1775	**3/4 Load Efficiency:**	92.7
Voltage:	230/460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	6.1
Amps - FL:	37.8/18.9	**Power Factor:**	80.5
Service Factor:	1.15	**Bearing - DE:**	7309
Alt Service Factor:	1.00	**Bearing - ODE:**	6209-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
PREMIUM EFFICIENT MOTOR
ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3
HTR LDS H 115V 60W
SEVERE DUTY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 20-60 HZ
50HZ DATA:10 HP 190/380 V WITH FLA-31.6/15.8 A

Additional Information:

4P - TP EXTN
C/BOX 137 CU IN-1.25 NPT
HEATER LEADS EXIT WITH MOTOR LEADS
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 10.75 INCHES
HOLLOW SHAFT HIGH THRUST
LEADS NUMBERED 1,2,3 - CCW ROTN FROM ODE
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 2597 LB THRUST
COUPLING NOT INCLUDED IN BOM, WILL BE
ORDERED SEPERATELY

Performance Characteristics 1st Winding 1st Connection **Design: 25BD1162A**

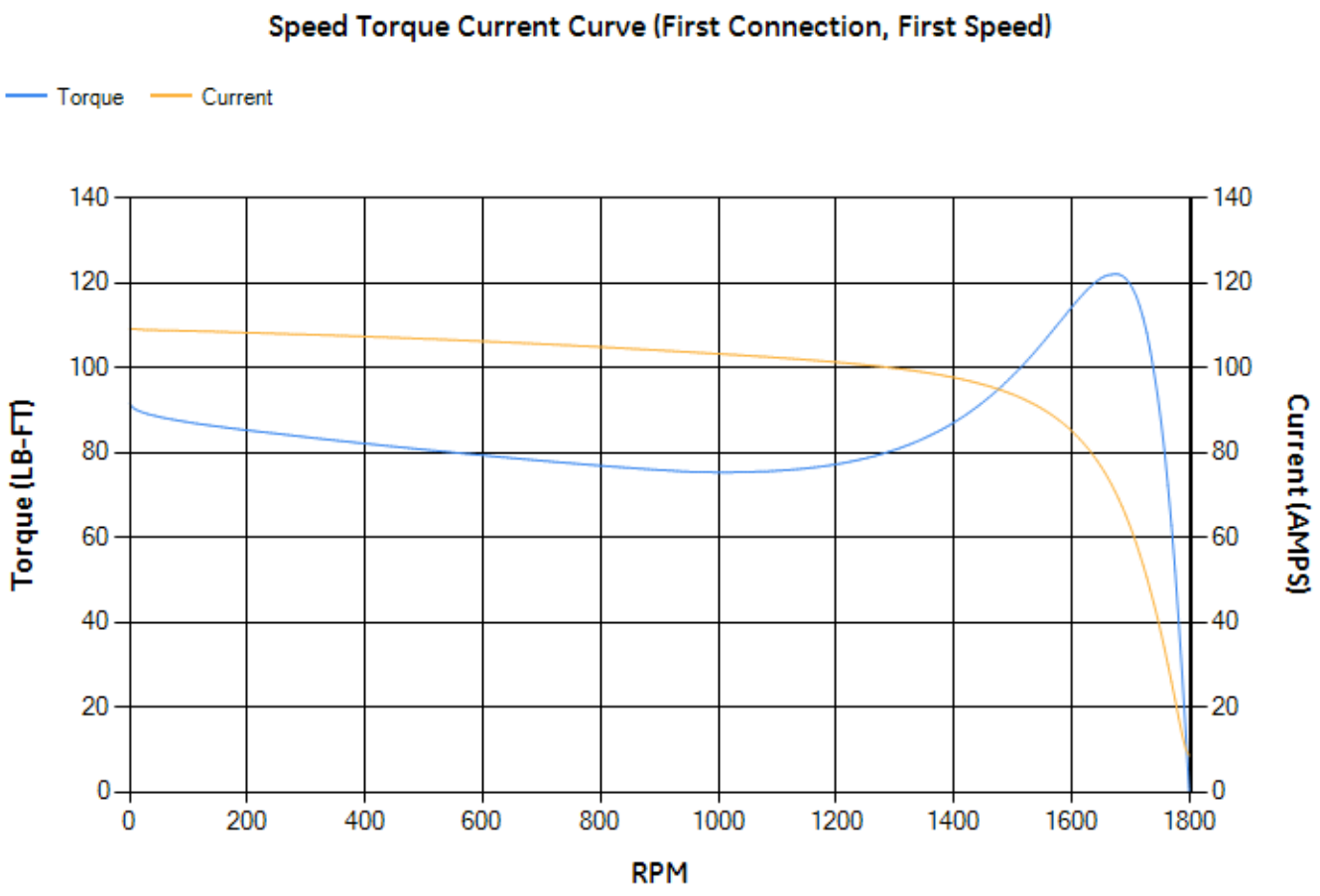
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.81	92.48	92.69	92.17	88.49	0.00
% PF	83.38	82.57	80.73	75.15	63.81	41.38	4.49
AMPS	23.02	21.3	18.8	15.12	11.93	9.58	8.54

TORQ(FL)#FT	44.38	**TORQ(LR)%FL**	206.21	**TORQ(BD)%FL**	273.89
AMPS(LR)	109.14	**PF AT START**	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 457 Lb-Ft Sq (19.24 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 38 seconds. Safe stall time at 100% voltage is 85 seconds cold, 54 seconds hot. Rotor inertia is 1.99 Lb-Ft Sq (0.08 Kg-meter Sq).

Open Circuit A-C:	0.386	**Short Circuit D-C:**	0.012
Short Circuit A-C:	0.023	**X/R Ratio:**	4.434
Stator Slots:	48	**Rotor Slots:**	40



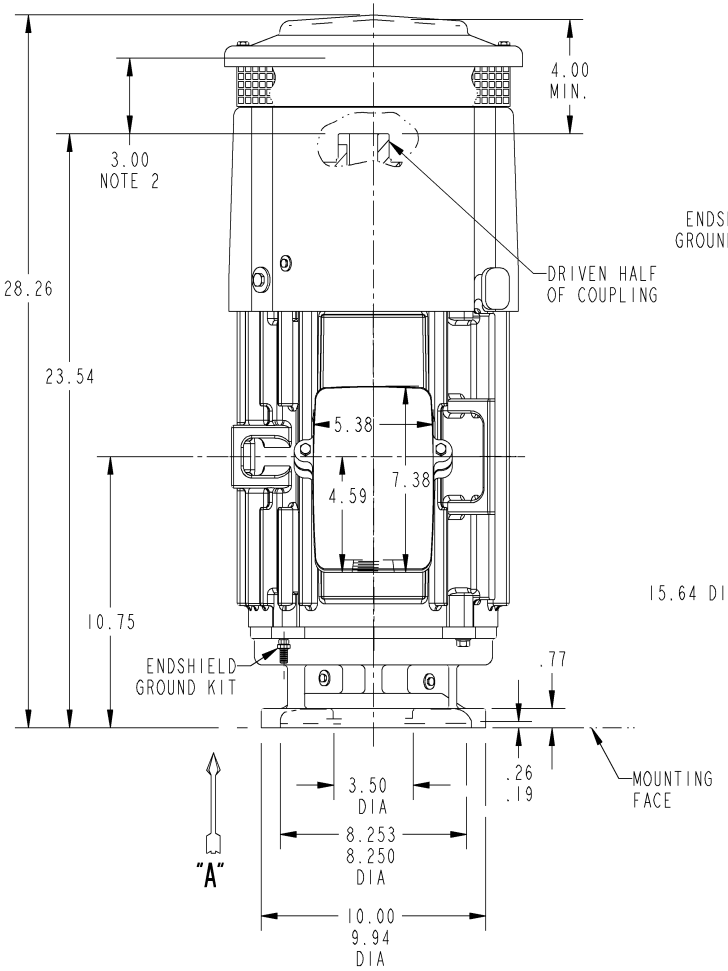
Marks:

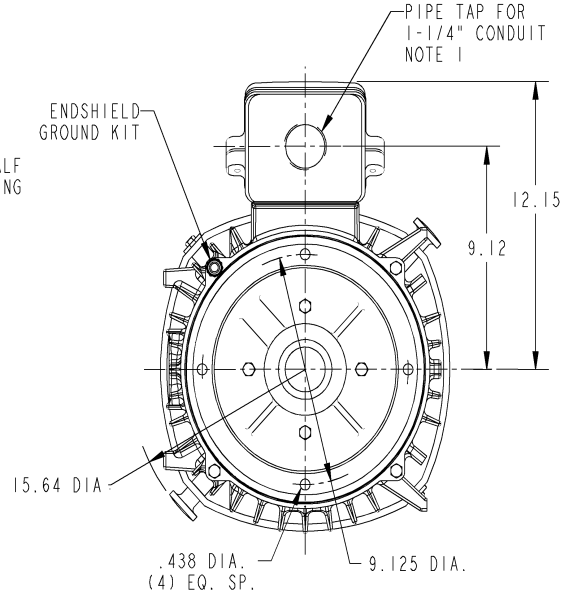
January 13, 2017

Model Number: 5KS254SAE6033A

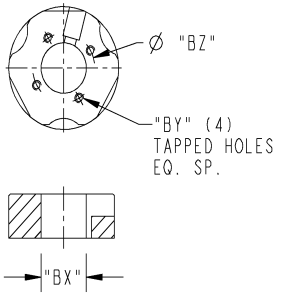
SIZE	DRAWING NO.	REV	SHEET
B	4002B5825PMP5317	0	1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED





VIEW AT ARROW "A"



DRIVEN HALF OF COUPLING

COUPLING KIT	RPM 3600	RPM 1800 or Below	"BY"	"BZ"	BORE DIA. "BX"	KEYWAY "W"	KEYWAY "D"
4002B5528AA NON-REVERSE	GR.1	GR.8	1/4-20	1.750	1.252 1.251	.250	.125
	GR.2	GR.9			1.189 1.188		
	GR.3	GR.10	#10-32	1.375	1.002 1.001		
	GR.4	GR.11			.877 .876		
	GR.5	GR.12			.752 .751	.188	.094
	GR.7	GR.14	1/4-20	1.750	1.252 1.251	.375	.188
4002B5528AB BOLTED OR SELF-RELEASE	GR.1	GR.8	1/4-20	1.750	1.252 1.251	.250	.125
	GR.2	GR.9			1.189 1.188		
	GR.3	GR.10	#10-32	1.375	1.002 1.001		
	GR.4	GR.11			.877 .876		
	GR.5	GR.12			.752 .751	.188	.094
	GR.7	GR.14	1/4-20	1.750	1.252 1.251	.375	.188

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN, OR TO EITHER SIDE.

NOTE 2: THE TOTAL HEIGHT OF PUMP SHAFT & LOCKING NUT ABOVE TOP OF COUPLING, MUST NOT EXCEED THIS DIMENSION.

THIRD ANGLE PROJECTION

FOR ADDITIONAL INFO REFER TO:	SIGNATURES		DATE
APPLIED PRACTICES	MODEL		
DIMENSIONS ARE IN INCHES	DETAIL	KARTHIK	05/17/2013
TOLERANCE ON: 1 PL DECIMALS ± 0.1 2 PL DECIMALS ± 0.02 3 PL DECIMALS ± 0.005 ANGLES ± 0.5 FRACTIONS ±	CHECKED	KARTHIK	05/17/2013
	ENGRG		
	MFG		
	QUALITY		
FINISH	ISSUED	KARTHIK	05/17/2013
MATERIAL	SOLID MODEL: MODEL NAME		

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

GE Motors — GENERAL ELECTRIC COMPANY

TITLE: INDUCTION MOTOR OUTLINE

HOLLOW SHAFT - HIGH THRUST (BD-10), EKT ON DE SIDE

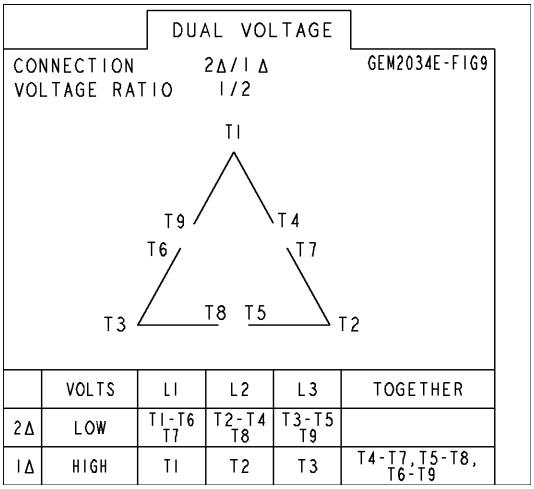
L250TP10 T.EF.C. P BASE VERTICAL

SIZE	DRAWING	REV
B	4002B5825PMP5317	0

SCALE: | SHEET 1 of 1

Connection Diagram

GEM2034E-FIG9

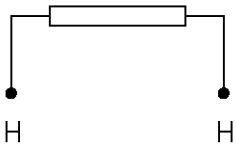


	VOLTS	L1	L2	L3	TOGETHER
2Δ	LOW	T1-T6 T7	T2-T4 T8	T3-T5 T9	
1Δ	HIGH	T1	T2	T3	T4-T7, T5-T8, T6-T9

Heater Connection

3027JE-1

FIG. 1
HEATER CONN.



CONTROL	L1	L2
VOLTAGE ONLY	H	H